

## Create Django web Site

- `Python -m venv my1`
- `.\my1\Scripts\activate`
- `pip install Django`
- `update Django`
- `Django-admin startproject mysite . [ Project name ]`
- `TIME_ZONE = Asia/Kolkata`
- `python .\manage.py runserver`
- For close Server `Ctrl + C`
- `python .\manage.py migrate`
- `python .\manage.py createsuperuser`
- Enter Password & Conform Password
- `python .\manage.py startapp myapp`
- Go To mysite-- `setting.py -- INSTALLED_APPS`
  - `'myapp', [ add ]`
- Goto mysite – `urls.py`
  - Add include in `[ path,include ]`
  - `path('',include('myapp.urls')) [ Add path ]`
- Create file `urls.py` in myapp
  - `from django.urls import path`
  - `from . import views`
  - 
  - `urlpatterns = [`
  - `path('',views.index,name='index')`
  - `]`
- Go myapp --- `views.py`
  - `def index(request):`
  - `return render(request,'index.html')`
- Go myapp – create templates folder
- Myapp --- templates
  - `Index.html`
  - `Header.html`
- Go `index.html`
  - TOP
    - `{% extends 'header.html' %}`
    - `{% block content %}`
  - Boutom
    - `{% endblock %}`

- Go header.html
  - Before Nav tag :
  - {% block content %}
  - {% endblock %}
- Add More Pages
  - Contact.html
  - Login.html
  - signup.html
  - user.html
  - change\_password
- how to add in nav link in href
  - href = "{% url 'contact' %}"
  - href = "{% url 'signup' %}"
  - href = "{% url 'login' %}"
  - href = "{% url 'user.html' %}"
  - href = "{% url 'change\_password' %}"
- Add all link set path
  - path('contact/',views.contact,name='contact'),
  - path('signup/',views.signup,name='signup'),
  - path('login/',views.login,name='login'),
- create Modals Function in views.py
  - def contact(request):
  - return render(request,'contact.html')
  - def signup(request):
  - return render(request,'signup.html')
  - def login(request):
  - return render(request,'login.html')
- Write code for conctect.html html code
- Add models in models.py
  - class Contact(models.Model):
  - name=models.CharField(max\_length=100)
  - email=models.EmailField()
  - mobile=models.PositiveIntegerField()
  - remark=models.TextField()
  - 
  - def \_\_str\_\_(self):
  - return self.name
- Go admin.py in myapp
  - from .models import Contact
  - admin.site.register(Contact)
- python .\manage.py makemigrations
- python .\manage.py migrate

- Also Add in contact.html ---- in form tage
  - `<form method="post" action="{% url 'contact' %}">`
  - `{% csrf_token %}`
- Go views.py
  - Add from .models import Contact,User
  - `def contact(request):`
  - `if request.method == 'POST':`
  - `Contact.objects.create(`
  - `name=request.POST['name'],`
  - `email=request.POST['email'],`
  - `mobile=request.POST['mobile'],`
  - `remark=request.POST['remark']`
  - `)`
  - `msg="Contact saved successfully"`
  - `contact=Contact.objects.all().order_by('-id')[:3]`
  - `return render(request,'contact.html',{'msg':msg,'contact':contact})`
  - `else:`
  - `contact=Contact.objects.all().order_by('-id')[:3]`
  - `return render(request,'contact.html',{'contact':contact})`
- Go views.py
  - Go contact.html
  - `{% if msg %}`
  - `<div class="alert alert-success" role="alert" style="margin-top: 20px;">`
  - `{{msg}}`
  - `{% endif %}`

## Recent Contacts :

- `<h3>Recent Contacts :</h3>`
- `<hr>`
- `{% for i in contact %}`
- `Name : {{i.name}} <br>`
- `Remarks : {{i.remark}} <br><hr>`
- `{% endfor %}`
  
- `{% endfor %}`
  
- `Go views.py`
  - `contact=Contact.objects.all().order_by('-id')[:3]`
  - `return render(request,'contact.html',{'msg':msg,'contact':contact})`
  - `else:`
  - `contact=Contact.objects.all().order_by('-id')[:3]`
  - `return render(request,'contact.html',{'contact':contact})`
- `Go views.py`
  - `msg="Contact saved successfully"`
  - `contact=Contact.objects.all().order_by('-id')[:3]`
  - `return render(request,'contact.html',{'msg':msg,'contact':contact})`
  - `else:`
  - `contact=Contact.objects.all().order_by('-id')[:3]`
  - `return render(request,'contact.html',{'contact':contact})`

## Sign-Up User

- `Go Create Signup Form in html`
- `Go views.py`
  - `Import User`
  - `Create views signup function`
  - `def signup(request):`
  - `if request.method=="POST":`
  - `try:`
  - `User.objects.get(email=request.POST['email'])`
  - `msg="Email already exist"`
  - `return render(request,'signup.html',{'msg':msg})`
  - `except:`

- if request.POST['password']==request.POST['c\_password']:
- User.objects.create(
- fname=request.POST['fname'],
- lname=request.POST['lname'],
- mobile=request.POST['mobile'],
- email=request.POST['email'],
- address=request.POST['address'],
- password=request.POST['password']
- )
- msg="Signup Successfully"
- return render(request,'signup.html',{'msg':msg})
- else:
- msg="Password and Confirm Password does not match"
- return render(request,'signup.html',{'msg':msg})
- else:
- return render(request,'signup.html')
- Go models.py
  - Create Models Class User
  - class User(models.Model):
  - fname=models.CharField(max\_length=100)
  - lname=models.CharField(max\_length=100)
  - mobile=models.PositiveIntegerField()
  - email=models.EmailField()
  - address=models.TextField()
  - password=models.CharField(max\_length=100)
  - 
  - 
  - def \_\_str\_\_(self):
  - return self.fname
- Go admin.py
  - Import User
  - admin.site.register(User)
- python .\manage.py makemigrations
- python .\manage.py migrate

## Login User

- Create login Form in html
- Go views.py
  - def login(request):
  - if request.method == 'POST':

- try:
- user=User.objects.get(email=request.POST['email'])
- if user.password==request.POST['password']:
- request.session['email']=user.email
- request.session['fname']=user.fname
- return render(request,'index.html')
- else:
- msg="Invalid password"
- return render(request,'login.html',{'msg':msg})
- except:
- msg="Email does not exist"
- return render(request,'login.html',{'msg':msg})
- else:
- return render(request,'login.html')
- Go headear.html
- {% if request.session.email %}
- <li><a href="{% url 'change\_password' %}"><span class="glyphicon glyphicon-edit"></span> Change Password</a></li>
- <li><a href="{% url 'profile' %}"><span class="glyphicon glyphicon-user"></span> : {{request.session.fname}}</a></li>
- <li><a href="{% url 'logout' %}"><span class="glyphicon glyphicon-log-out"></span> Logout </a></li>
- {% endif %}
- {% if request.session.email %}
- {% else %}
- <li><a href="{% url 'signup' %}"><span class="glyphicon glyphicon-user"></span> Sign Up</a></li>
- <li><a href="{% url 'login' %}"><span class="glyphicon glyphicon-log-in"></span> Login</a></li>
- {% endif %}

- Create change\_password.html

- Go urls.py
- path('change\_password/',views.change\_password,name='change\_password'),
- go views.py
- if request.method == 'POST':
- user=User.objects.get(email=request.session['email'])
- if user.password==request.POST['password']:
- if request.POST['new\_password']==request.POST['c\_new\_password']:
- if user.password!=request.POST['new\_password']:
- user.password=request.POST['new\_password']
- user.save()
- del request.session['email']

- `del request.session['fname']`
- `msg="Password Changed Successfully.Please login again"`
- `return render(request,'login.html',{'msg':msg})`
- `else:`
- `msg="New Password Can't Be From Old Password"`
- `return render(request,'change_password.html',{'msg':msg})`
- `else:`
- `msg="New Password & Confirm New Password does not match "`
- `return render(request,'change_password.html',{'msg':msg})`
- `else:`
- `msg="Invalid Old Password"`
- `return render(request,'change_password.html',{'msg':msg})`
- `else:`
- `return render(request,'change_password.html')`
- 
- **Create Profile.html**
  - **Go urls.py**
  - `path('change_password/',views.change_password,name='change_password'),`
  - **go views.py**
  - `user=User.objects.get(email=request.session['email'])`
  - `if request.method == 'POST':`
  - `user.fname=request.POST['fname']`
  - `user.lname=request.POST['lname']`
  - `user.mobile=request.POST['mobile']`
  - `user.address=request.POST['address']`
  - `user.save()`
  - `request.session['fname']=user.fname`
  - `msg="Profile Updated Successfully"`
  - `return render(request,'profile.html',{'msg':msg,'user':user})`
  - `return render(request,'profile.html',{'user':user})`
- **Create logout.html**
  - **Go urls.py**
  - `path('change_password/',views.change_password,name='change_password'),`
  - **go views.py**
  - **try:**
  - `del request.session['email']`
  - `del request.session['fname']`
  - `msg="Logout Successfully"`
  - `return render(request,'login.html',{'msg':msg})`
  - **except:**
  - `msg="Logout Successfully"`
  - `return render(request,'login.html',{'msg':msg})`